

## Department of the Interior Y2K Master Plan

Each Bureau/Office will submit a master plan for each mission-critical system being tracked by OMB. These plans are due back to Dave Brandt by January 15, 1998. Master Plans will include, but not be limited to, the following information:

System Name: <b>GP-Hydromet Support</b> System Owner: <b>Great Plains Region</b>		
Task	Scheduled Completion Date	Actual Completion Date
<b>Analysis:</b>		
- existing code	09/1997	05/1997
- internal interfaces	09/1997	05/1997
- external interfaces	09/1997	05/1997
<b>Remediation</b>	06/1998	12/1997
<b>Testing:</b>		
- regression testing	08/1998	12/1997
- integrated testing	08/1998	Working
- Y2K testing	08/1998	Working
<b>Independent Validation and Verification</b>	N/A	N/A
<b>Implementation</b>	9/1998	
<b>Costs:</b>	Estimated	Actual
Enter costs in whole dollars	\$50,000.00	

Enter all dates in mm/yyyy format

- 1) Attached timeline by Y2K Phase (include critical path);
- 2) List of resources needed/used (use separate figures for Government employees and contractors in work weeks, months, or years, as appropriate):

**In-house programmer (.12 WYE), Robert Smith (406) 247-2752.  
DEC-Alpha workstation 500-400 for testing purposes and parallel operation.  
DEC-Alpha server 4100 for parallel operation and implementation (Ported from  
DEC-VAX for Y2K compliance).**

3) List any systems (internal and external) that this system receives data from or delivers data to for processing, manipulation, etc. Include input and output file names, contact names, target dates for remediation and verification;

### **Input**

**GP Region Sutron Hydromet Data Management System (DMS), Roger Michel (406)247-7758. GP Region DMS is output from the Sutron Hydromet, Pacific Northwest Region, Bureau of Reclamation, Boise, Idaho, Mike Pluto (208) 378-5183, tracked in the Y2K database as the application entitled PNOOPER. Remediation is scheduled for completion 03/1998 and verification is scheduled for completion 11/1998.**

**SNOTEL (USDA Natural Resources Conservation Service, National Water and Climate Center, Portland, Oregon, Barbara Miller (503) 414-3049). SNOTEL is Y2K compliant.**

**GP Region SCADA Systems at McCook, Nebraska and Mills, Wyoming. McCook and Wyoming SCADAs are Y2K compliant.**

### **Output**

**GP Region Internet Web Page, <http://www.gp.usbr.gov>, Roger Michel (406) 247-7758. Output to the GP Region web page is Y2K compliant.**

4) Testing methodology used to assure functionality was not affected by repairs (regression testing, etc.);

**a. First test data was input into the system (in an isolated environment) to check that the various date and number formats known to cause functionality and Y2K problems were corrected in the code.**

**b. Next the application was run parallel with real-time data for a month.**

5) Validation methodology to assure that this system will be Y2K compliant;

**Used test data in an isolated environment to make sure that 2 character date fields, logic using pre-Y2K date formats, and output in 2 character format was corrected.**

**Independent validation and verification is not feasible as the GP-Hydromet Support system is internal to the Region, proprietary, and data input is real-time.**

The following will be submitted addressing your organization's overall Y2K plan:

Evidence of thorough Assessment

Completed Y2K Program Questionnaire (attached)